

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 09/492,764C  
Source: IFW/b  
Date Processed by STIC: 12/16/04

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 12/16/2004

PATENT APPLICATION: US/09/492,764C

TIME: 15:01:48

Input Set : A:\10873-008.txt

Output Set: N:\CRF4\12162004\I492764C.raw

5 <110> APPLICANT: Jove, Richard  
6 Hamilton, Andrew  
7 Gilbert, Richard  
8 Dalton, William  
9 Sebti, Said  
10 Yu, Hua  
11 Heller, Richard  
12 Jaroszeski, Mark  
15 <120> TITLE OF INVENTION: INHIBITION OF STAT3 SIGNAL TRANSDUCTION FOR HUMAN CANCER  
THERAPY  
17 <130> FILE REFERENCE: 10873-008-999  
19 <140> CURRENT APPLICATION NUMBER: 09/492,764C  
20 <141> CURRENT FILING DATE: 2000-01-27  
22 <150> PRIOR APPLICATION NUMBER: 60/117,600  
23 <151> PRIOR FILING DATE: 1999-01-27  
25 <160> NUMBER OF SEQ ID NOS: 38  
27 <170> SOFTWARE: PatentIn version 3.0  
29 <210> SEQ ID NO: 1  
30 <211> LENGTH: 24  
31 <212> TYPE: DNA  
32 <213> ORGANISM: Homo sapiens  
34 <400> SEQUENCE: 1  
35 agcttcattt cccgtaaatac ccta 24  
38 <210> SEQ ID NO: 2  
39 <211> LENGTH: 24  
40 <212> TYPE: DNA  
41 <213> ORGANISM: Homo sapiens  
43 <400> SEQUENCE: 2  
44 agcttcattt cccgtaaatac ccta 24  
47 <210> SEQ ID NO: 3  
48 <211> LENGTH: 22  
49 <212> TYPE: DNA  
50 <213> ORGANISM: Homo sapiens  
52 <400> SEQUENCE: 3  
53 gtcccccggc cggggaggcg ct 22  
56 <210> SEQ ID NO: 4  
57 <211> LENGTH: 25  
58 <212> TYPE: DNA  
59 <213> ORGANISM: Homo sapiens  
61 <400> SEQUENCE: 4  
62 cgacgacttc tcccgcgcgt accgc 25  
65 <210> SEQ ID NO: 5  
66 <211> LENGTH: 25  
67 <212> TYPE: DNA

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68 <213> ORGANISM: Homo sapiens
70 <400> SEQUENCE: 5
71 ccgcatgctg gggccgtaca gttcc 25
74 <210> SEQ ID NO: 6
75 <211> LENGTH: 20
76 <212> TYPE: DNA
77 <213> ORGANISM: Homo sapiens
79 <400> SEQUENCE: 6
80 cgggcattca gtgacctgac 20
83 <210> SEQ ID NO: 7
84 <211> LENGTH: 20
85 <212> TYPE: DNA
86 <213> ORGANISM: Homo sapiens
88 <400> SEQUENCE: 7
89 tcaggaacca gcggttgaag 20
92 <210> SEQ ID NO: 8
93 <211> LENGTH: 20
94 <212> TYPE: DNA
95 <213> ORGANISM: Homo sapiens
97 <400> SEQUENCE: 8
98 ccactgaact tctgattcgc 20
101 <210> SEQ ID NO: 9
102 <211> LENGTH: 20
103 <212> TYPE: DNA
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE: 9
107 gcgtgctagc tggatgtctt 20
110 <210> SEQ ID NO: 10
111 <211> LENGTH: 9
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 10
116 ttcggagaa 9
119 <210> SEQ ID NO: 11
120 <211> LENGTH: 9
121 <212> TYPE: DNA
122 <213> ORGANISM: Homo sapiens
124 <400> SEQUENCE: 11
125 tgaggataa 9
128 <210> SEQ ID NO: 12
129 <211> LENGTH: 12
130 <212> TYPE: PRT
131 <213> ORGANISM: Homo sapiens
133 <220> FEATURE:
134 <221> NAME/KEY: misc_feature
135 <223> OTHER INFORMATION: Xaa = Ser or Pro
137 <400> SEQUENCE: 12
W--> 139 His Tyr Xaa Pro Ile Leu Val Tyr Gln Pro Ser Trp
140 1 5 10

```

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Input Set : A:\10873-008.txt

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142 <210> SEQ ID NO: 13  
143 <211> LENGTH: 12  
144 <212> TYPE: PRT  
145 <213> ORGANISM: Homo sapiens  
147 <400> SEQUENCE: 13  
149 Gln Asp Val His Leu Thr Gln Gln Ser Arg Tyr Thr  
150 1 5 10  
152 <210> SEQ ID NO: 14  
153 <211> LENGTH: 12  
154 <212> TYPE: PRT  
155 <213> ORGANISM: Homo sapiens  
157 <400> SEQUENCE: 14  
159 Ser His Pro Trp Asn Ala Gln Arg Glu Leu Ser Val  
160 1 5 10  
162 <210> SEQ ID NO: 15  
163 <211> LENGTH: 12  
164 <212> TYPE: PRT  
165 <213> ORGANISM: Homo sapiens  
167 <400> SEQUENCE: 15  
169 Tyr Pro Ala Pro Gln Pro Leu Val Thr Lys Thr Ser  
170 1 5 10  
172 <210> SEQ ID NO: 16  
173 <211> LENGTH: 12  
174 <212> TYPE: PRT  
175 <213> ORGANISM: Homo sapiens  
177 <400> SEQUENCE: 16  
179 Phe Ser Tyr Pro Leu Thr Arg Ala Pro Leu Asn Met  
180 1 5 10  
182 <210> SEQ ID NO: 17  
183 <211> LENGTH: 7  
184 <212> TYPE: PRT  
185 <213> ORGANISM: Homo sapiens  
187 <400> SEQUENCE: 17  
189 His Ala Ile Tyr Pro Arg Asn  
190 1 5  
192 <210> SEQ ID NO: 18  
193 <211> LENGTH: 7  
194 <212> TYPE: PRT  
195 <213> ORGANISM: Homo sapiens  
197 <400> SEQUENCE: 18  
199 Ala Ser Thr Leu Pro Lys Ala  
200 1 5  
202 <210> SEQ ID NO: 19  
203 <211> LENGTH: 7  
204 <212> TYPE: PRT  
205 <213> ORGANISM: Homo sapiens  
207 <400> SEQUENCE: 19  
209 Ile Gln Ser Pro His Phe Phe  
210 1 5

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Input Set : A:\10873-008.txt

Output Set: N:\CRF4\12162004\I492764C.raw

212 <210> SEQ ID NO: 20  
 213 <211> LENGTH: 6  
 214 <212> TYPE: PRT  
 215 <213> ORGANISM: Homo sapiens  
 217 <220> FEATURE:  
 218 <221> NAME/KEY: misc\_feature  
 219 <223> OTHER INFORMATION: Xaa = Phosphotyrosine  
 221 <400> SEQUENCE: 20

W--&gt; 223 Pro Xaa Leu Lys Thr Lys

224 1 5  
 226 <210> SEQ ID NO: 21  
 227 <211> LENGTH: 6  
 228 <212> TYPE: PRT  
 229 <213> ORGANISM: Homo sapiens  
 231 <400> SEQUENCE: 21

233 Pro Tyr Leu Lys Thr Lys

234 1 5  
 236 <210> SEQ ID NO: 22  
 237 <211> LENGTH: 6  
 238 <212> TYPE: PRT  
 239 <213> ORGANISM: Homo sapiens  
 241 <220> FEATURE:  
 242 <221> NAME/KEY: misc\_feature  
 243 <223> OTHER INFORMATION: Xaa= Phosphotyrosine  
 245 <400> SEQUENCE: 22

W--&gt; 247 Ala Xaa Leu Lys Thr Lys

248 1 5  
 250 <210> SEQ ID NO: 23  
 251 <211> LENGTH: 6  
 252 <212> TYPE: PRT  
 253 <213> ORGANISM: Homo sapiens  
 255 <220> FEATURE:  
 256 <221> NAME/KEY: misc\_feature  
 257 <223> OTHER INFORMATION: Xaa = Phosphotyrosine  
 259 <400> SEQUENCE: 23

W--&gt; 261 Pro Xaa Ala Lys Thr Lys

262 1 5  
 264 <210> SEQ ID NO: 24  
 265 <211> LENGTH: 6  
 266 <212> TYPE: PRT  
 267 <213> ORGANISM: Homo sapiens  
 269 <220> FEATURE:  
 270 <221> NAME/KEY: misc\_feature  
 271 <223> OTHER INFORMATION: Xaa = Phosphotyrosine  
 273 <400> SEQUENCE: 24

W--&gt; 275 Pro Xaa Leu Ala Thr Lys

276 1 5  
 278 <210> SEQ ID NO: 25  
 279 <211> LENGTH: 6

## RAW SEQUENCE LISTING

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Input Set : A:\10873-008.txt

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280 <212> TYPE: PRT  
 281 <213> ORGANISM: Homo sapiens  
 283 <220> FEATURE:  
 284 <221> NAME/KEY: misc\_feature  
 285 <223> OTHER INFORMATION: Xaa = Phosphotyrosine  
 287 <400> SEQUENCE: 25

W--&gt; 289 Pro Xaa Leu Lys Ala Lys

290 1 5  
 292 <210> SEQ ID NO: 26  
 293 <211> LENGTH: 6  
 294 <212> TYPE: PRT  
 295 <213> ORGANISM: Homo sapiens  
 297 <400> SEQUENCE: 26  
 299 Pro Tyr Leu Lys Thr Ala  
 300 1 5  
 302 <210> SEQ ID NO: 27  
 303 <211> LENGTH: 4  
 304 <212> TYPE: PRT  
 305 <213> ORGANISM: Homo sapiens  
 307 <220> FEATURE:  
 308 <221> NAME/KEY: misc\_feature  
 309 <223> OTHER INFORMATION: Xaa = Phosphotyrosine  
 311 <400> SEQUENCE: 27

W--&gt; 313 Pro Xaa Leu Lys

314 1  
 316 <210> SEQ ID NO: 28  
 317 <211> LENGTH: 4  
 318 <212> TYPE: PRT  
 319 <213> ORGANISM: Homo sapiens  
 321 <220> FEATURE:  
 322 <221> NAME/KEY: misc\_feature  
 323 <223> OTHER INFORMATION: Xaa = Phosphotyrosine  
 325 <400> SEQUENCE: 28

W--&gt; 327 Pro Xaa Phe Lys

328 1  
 330 <210> SEQ ID NO: 29  
 331 <211> LENGTH: 3  
 332 <212> TYPE: PRT  
 333 <213> ORGANISM: Homo sapiens  
 335 <220> FEATURE:  
 336 <221> NAME/KEY: misc\_feature  
 337 <223> OTHER INFORMATION: Xaa = Phosphotyrosine  
 339 <400> SEQUENCE: 29

W--&gt; 341 Xaa Leu Lys

342 1  
 344 <210> SEQ ID NO: 30  
 345 <211> LENGTH: 4  
 346 <212> TYPE: PRT  
 347 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/492,764C

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Input Set : A:\10873-008.txt  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; Xaa Pos. 3  
Seq#:20; Xaa Pos. 2  
Seq#:22; Xaa Pos. 2  
Seq#:23; Xaa Pos. 2  
Seq#:24; Xaa Pos. 2  
Seq#:25; Xaa Pos. 2  
Seq#:27; Xaa Pos. 2  
Seq#:28; Xaa Pos. 2  
Seq#:29; Xaa Pos. 1  
Seq#:30; Xaa Pos. 2  
Seq#:32; Xaa Pos. 1,2  
Seq#:34; Xaa Pos. 1,2  
Seq#:35; Xaa Pos. 2  
Seq#:36; Xaa Pos. 1,2  
Seq#:37; Xaa Pos. 2  
Seq#:38; Xaa Pos. 2

**VERIFICATION SUMMARY**

DATE: 12/16/2004

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Input Set : A:\10873-008.txt

Output Set: N:\CRF4\12162004\I492764C.raw

L:139 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:12  
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:223 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:20  
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:247 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:22  
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:261 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:23  
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:275 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:24  
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:289 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:25  
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:313 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:27  
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:327 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:28  
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:341 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:29  
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:355 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:30  
L:355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:376 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:377 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
L:380 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:381 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
L:382 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32  
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:407 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:408 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
L:411 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:412 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
L:413 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:34  
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:431 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:35  
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:443 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:444 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
L:447 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:448 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
L:449 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36  
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0  
L:469 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:37  
L:469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:483 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:38  
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0